

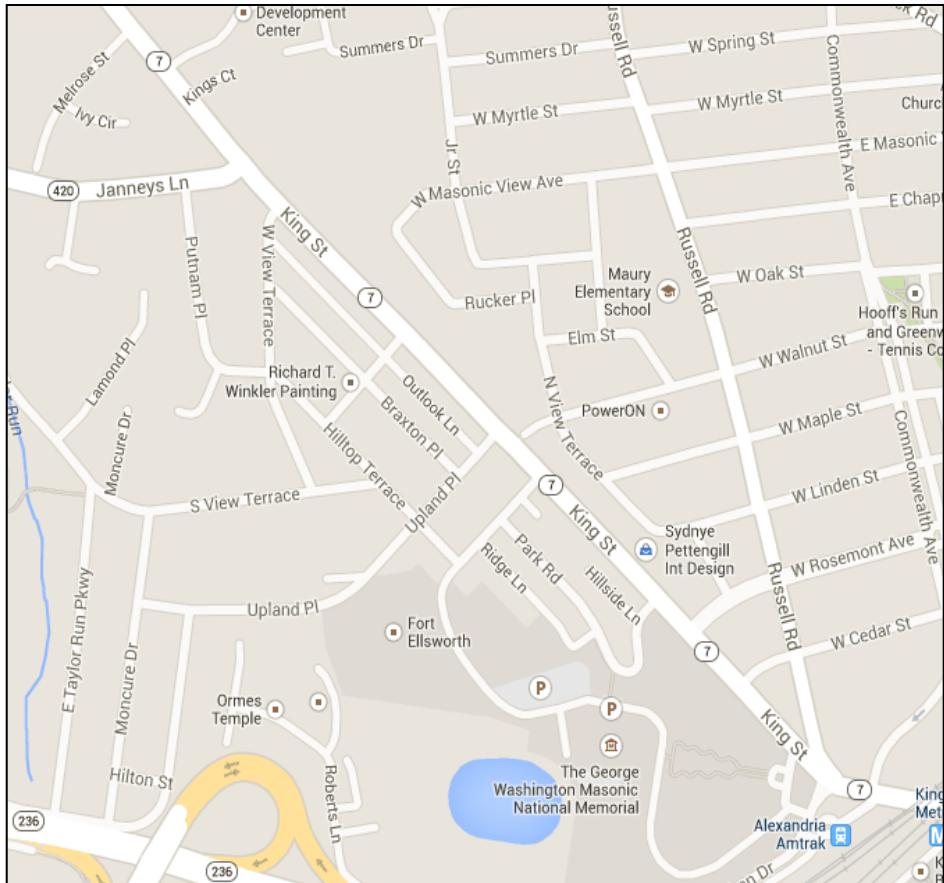
# Pedestrian Improvements – King Street and Adjacent Neighborhoods

Taylor Run Civic Association

2.19.2014

# Tonight's discussion

- Additional pedestrian improvements, beyond those proposed in the King Street Project
- Types of improvements
- 2008 Pedestrian and Bicycle Mobility Plan recommendations
- Community feedback



# Roadway design elements that affect driver behavior

- Horizontal Curvature
- Vertical Curvature
- Adjacent Land Use
- Lane Width
- Design speed
- Signage
- Pavement Markings



## Non-physical ways to affect driver behavior

- Enforcement
- Education



# Summary of King street project

- Narrow moving lanes to 10 ½ feet
- West Cedar Street to Highland Place
  - Install bike lanes in both directions
  - Remove parking
- Highland Place to Janney's Lane
  - Maintain Parking
  - Provide shared eastbound lanes
  - Provide shared westbound lanes where parking is maintained
  - Provide buffer for south sidewalk
- Install additional pedestrian & bicycle improvements

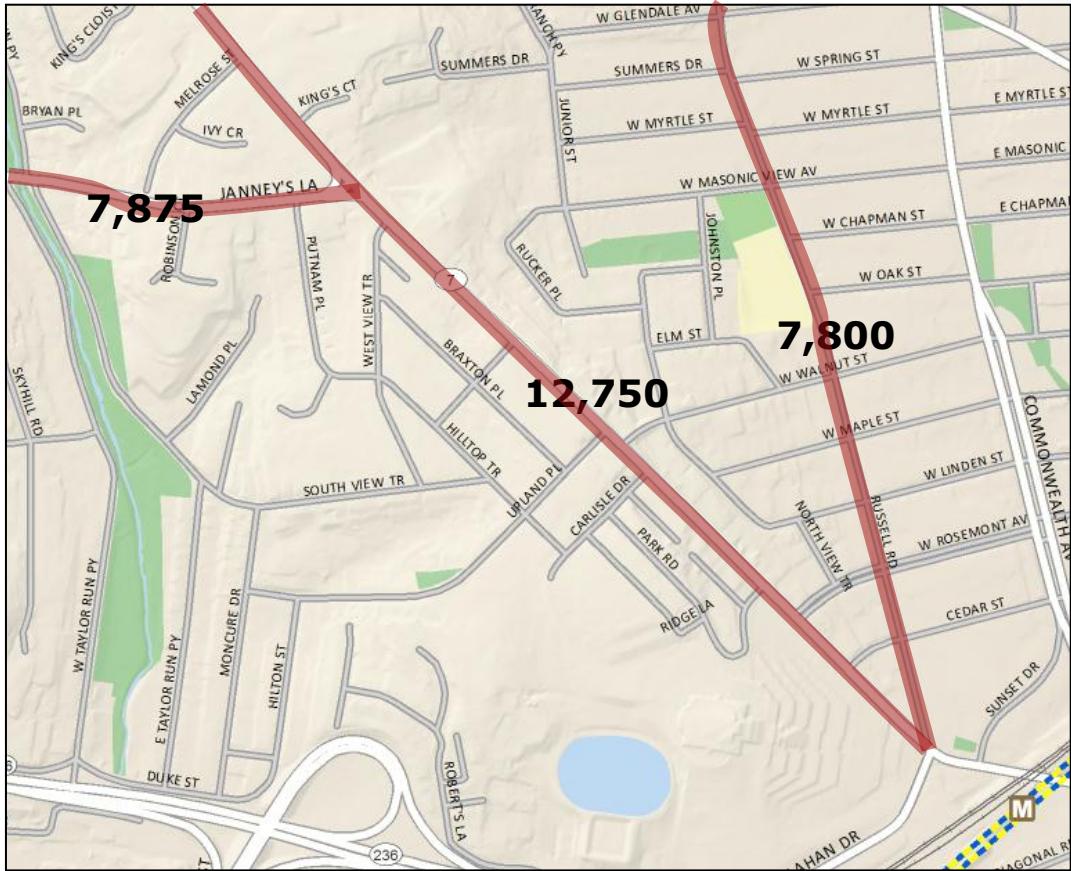
# Pedestrian Improvements

- Buffered south sidewalk between Janney's and Highland
- Pedestrian rapid flashing beacon and High visibility crosswalk at Upland Pl.
- Pedestrian countdown signals and push buttons at Highland Pl.
- New crosswalks at Park Pl., Carlisle Dr., W Cedar St. & W View Tr.
- Speed board between Highland Pl and Upland Pl (if feasible)
- Remove sidewalk obstructions where feasible



# King Street existing conditions

- King Street
  - 11 foot travel lanes
  - 12,750 vehicles per day
- Janney's Lane
  - 10 foot travel lanes
  - 7,875
  - 5 foot bike lane on one side
- Russell Road
  - 10-11 foot travel lanes
  - 7,800 vehicles per day
  - Speed cushions



# Types of pedestrian improvements

- Crosswalks
- Signage
- Variable Speed Boards
- Curb ramps
- Sidewalks
- Buffers



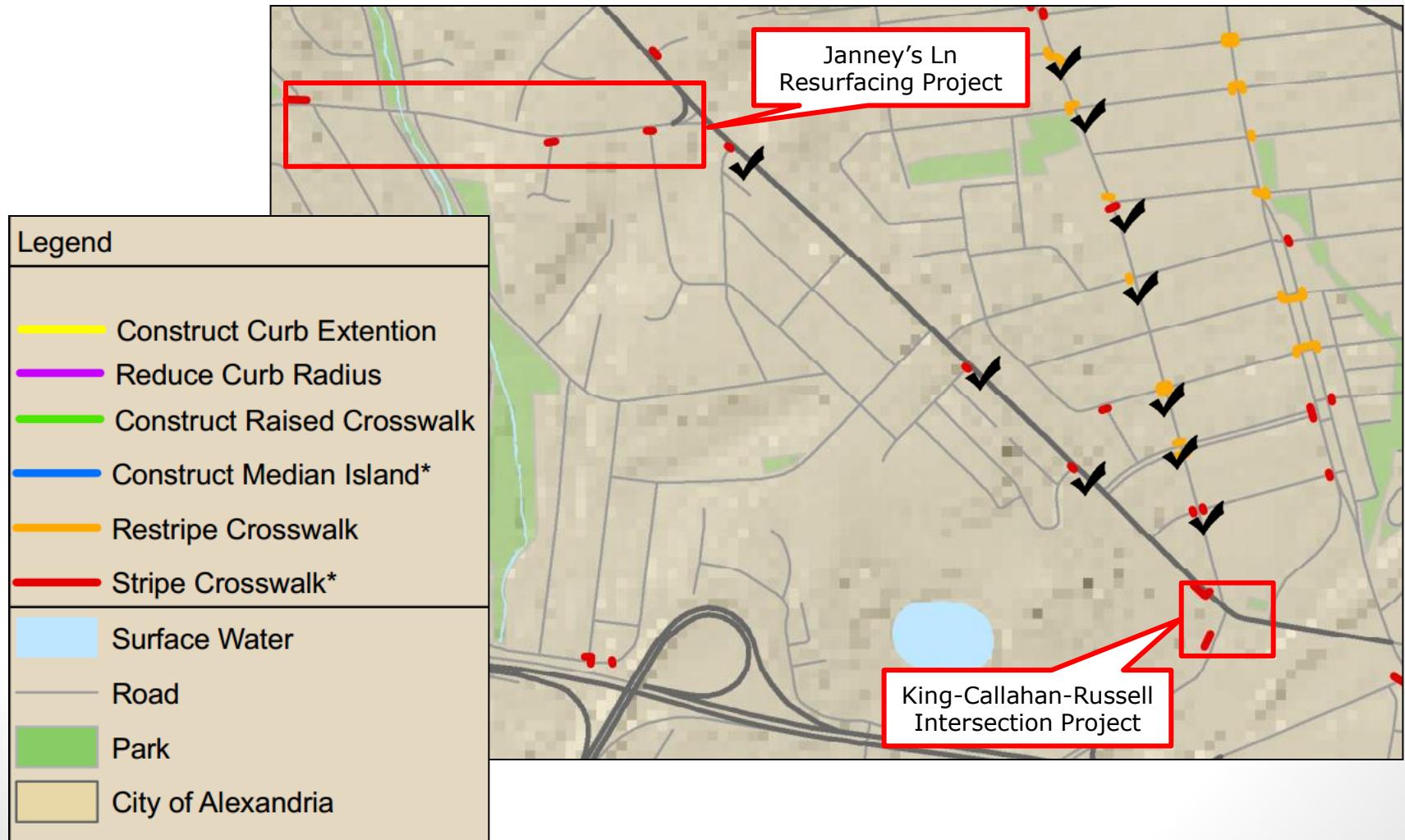
# Best practices

- Wide outside lane
- Pedestrian signage and signal
- Narrower moving lanes
- Crosswalks at intersections
  - High visibility
  - Standard



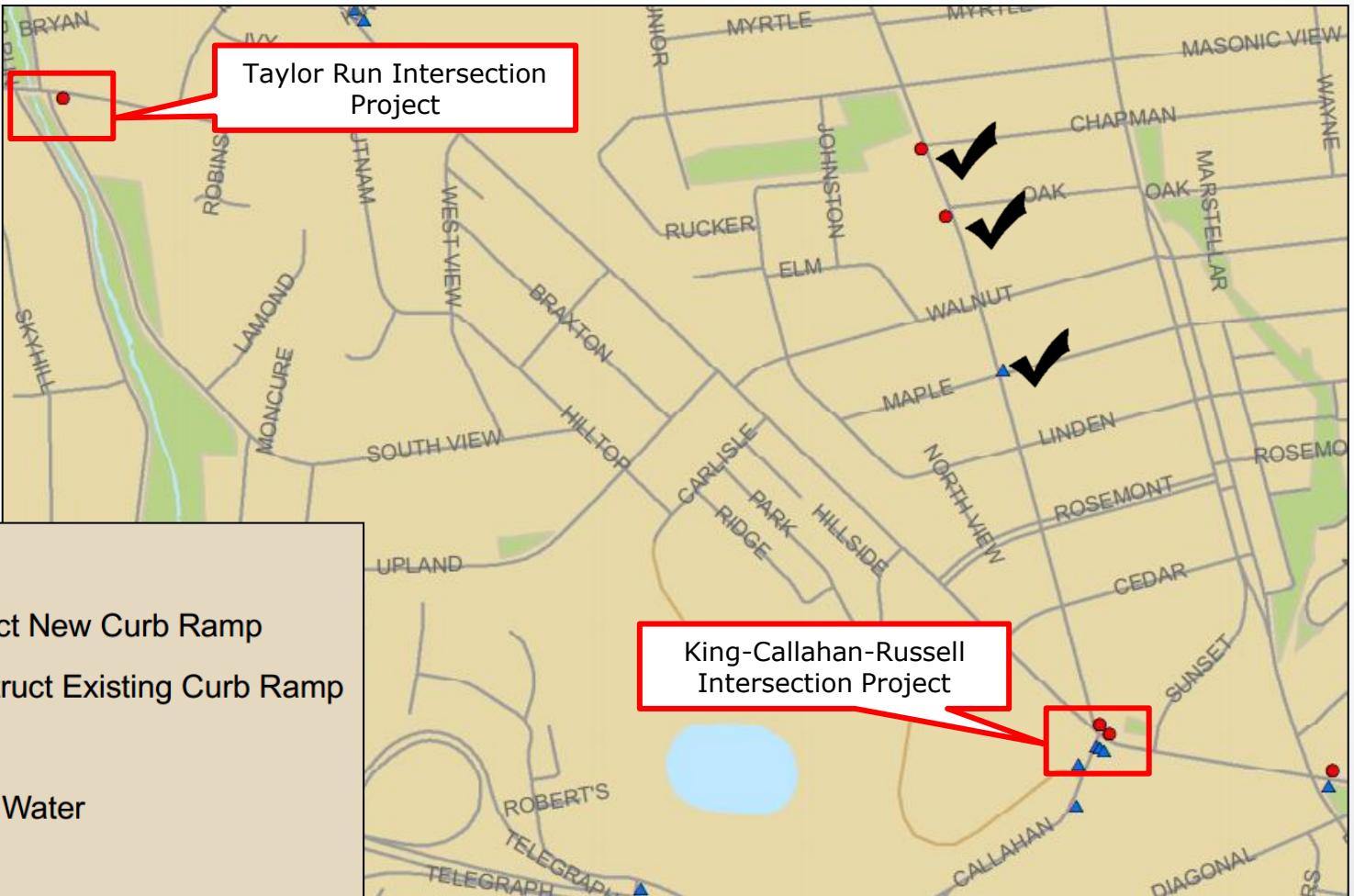
| Lane width (ft) | Reduction in Free-Flow Speed (mi/h) |
|-----------------|-------------------------------------|
| 12              | 0.0                                 |
| 11              | 1.9                                 |
| 10              | 6.6                                 |

# Recommended Pedestrian crossing improvements



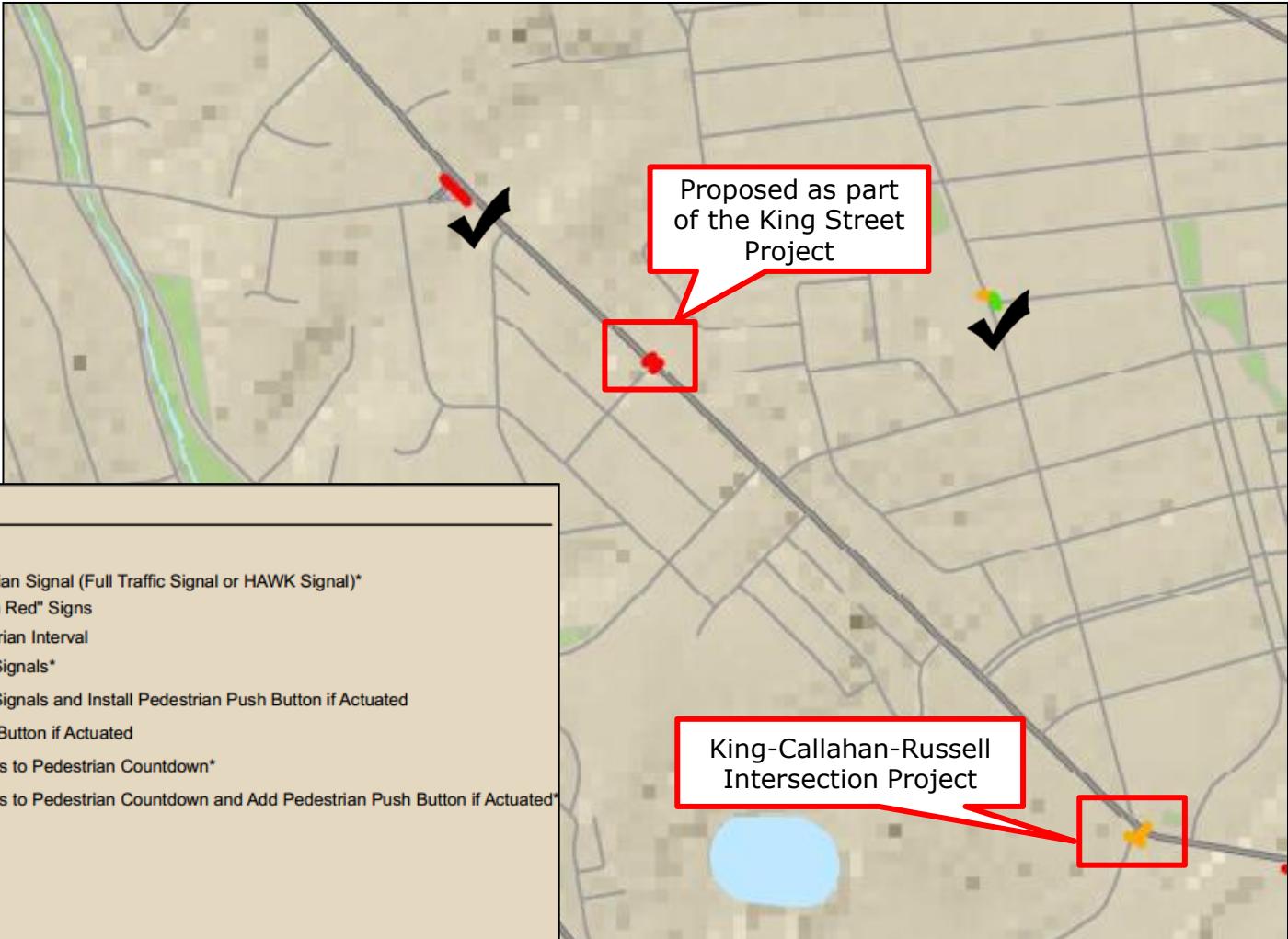
# Recommended curb ramp improvements

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# Recommended signalization improvements

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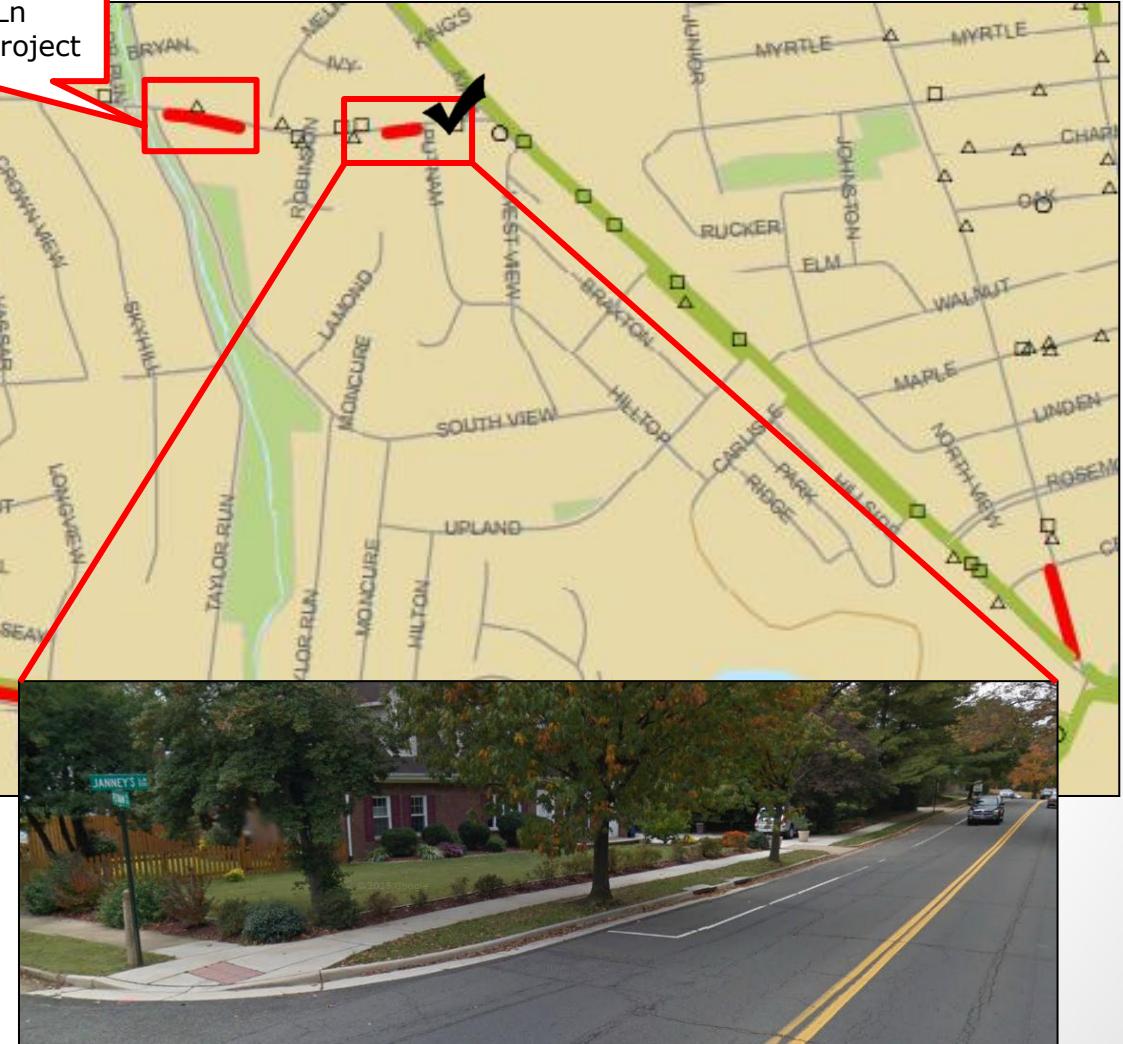
# Recommended sidewalk improvements

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Janney's Ln  
Resurfacing Project

## Legend

- Remove Clear Width Obstruction
- △ Remove Surface Defect
- Reconstruct Sidewalk Across Driveway
- Yellow Construct New Sidewalk /Long Term: Create Buffer
- Red Construct New Sidewalk
- Green Improve Landscaping in Buffer Area
- Long Term: Create Buffer
- Purple Reconstruct Existing Sidewalk /Long Term: Create Buffer
- Yellow Reconstruct Existing Sidewalk
- Road
- Surface Water
- Park
- City of Alexandria



# Possible Additional Improvements

- Work with homeowners on landscaping to provide clear sidewalks
- Consolidate signs/ minimize sidewalk obstructions
- Add another pedestrian crossing at intersection
- Advanced warning signs
- Colored bike lanes in conflict zones

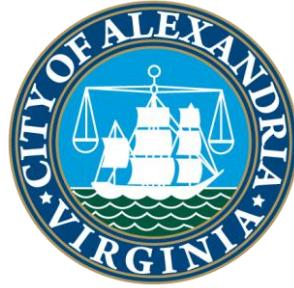




# Community feedback –Your Suggestions

- New ideas or suggested Improvements?
- Prioritization of improvements already identified.

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# Thank you

## Questions???

- Hillary Poole: [Hillary.Poole@AlexandriaVA.gov](mailto:Hillary.Poole@AlexandriaVA.gov)
- Pedestrian and Bicycle Mobility Plan Maps:  
<http://alexandriava.gov/localmotion/info/default.aspx?id=11418>